

THE EDUCATION UNIVERSITY OF HONG KONG

Course Outline

Part I

| | |
|------------------------------|---|
| Programme Title | : Doctor of Education (EdD) |
| Programme QF Level | : 7 |
| Course Title | : Advanced Systematic Review of Health Research |
| Course Code | : HCS7070 |
| Department | : Health and Physical Education |
| Credit Points | : 3 |
| Contact Hours | : 39 (Directed Study option) |
| Pre-requisite(s) | : Nil |
| Medium of Instruction | : English |
| Course Level | : 7 |

Part II

The University's Graduate Attributes and seven Generic Intended Learning Outcomes (GILOs) represent the attributes of ideal EdUHK graduates and their expected qualities respectively. Learning outcomes work coherently at the University (GILOs), programme (Programme Intended Learning Outcomes) and course (Course Intended Learning Outcomes) levels to achieve the goal of nurturing students with important graduate attributes.

In gist, the Graduate Attributes for Undergraduate, Taught Postgraduate and Research Postgraduate students consist of the following three domains (i.e. in short "PEER & I"):

- Professional Excellence;
- Ethical Responsibility; &
- Innovation.

The descriptors under these three domains are different for the three groups of students in order to reflect the respective level of Graduate Attributes.

The seven GILOs are:

1. Problem Solving Skills
2. Critical Thinking Skills
3. Creative Thinking Skills

- 4a. Oral Communication Skills
- 4b. Written Communication Skills
5. Social Interaction Skills
6. Ethical Decision Making
7. Global Perspectives

1. Course Synopsis

This advanced level course is designed to provide students with a systematic way to review the primary research based on a set research question. They will learn to identify, select, synthesize and appraise the quality of research papers and the evidence relevant to the research question. On completion of this course, students will be able to collate the relevant evidence to address the specific research question. They will be able to apply the methods of systematic review to the design, analysis and interpretation of health research. They will learn how to minimize bias using these systematic methods that inform policy and health decisions.

2. Course Intended Learning Outcomes (CILOs)

Upon completion of this course, students will be able to:

- CILO₁ Synthesize the evidence to critically search and evaluate the relevant scientific literature;
- CILO₂ develop a plan for a feasible data extraction process;
- CILO₃ examine the validity, bias and confounding of different research methods;
- CILO₄ plan a critical appraisal of a systematic review.

3. Content, CILOs and Teaching & Learning Activities

| Course Content | CILOs | Suggested Teaching & Learning Activities |
|---|-------------------------|---|
| Principles of a systematic review | CILO ₁ | Tutorials, Case study, Discussion with supervisor |
| General methods for systematic review | CILO ₂ | |
| Identify the essential steps to conduct a systematic review | CILO _{1,2,3} | |
| Develop a systematic review / meta-analysis research protocol | CILO _{1,2,3,4} | |

4. Assessment

| Assessment Tasks | Weighting (%) | CILO |
|---|---------------|---------------------|
| (a) Tutorials: Students are required to have tutorials with the supervisor on various topics covering the contents of the course. | 20% | CILO ₁₋₄ |
| (b) On-line discussion: Students are required to have discussion and give feedback to their supervisors on various topics covering the contents of the course. | 20% | CILO ₁₋₄ |
| (c) Individual assignment: Students are required to submit an assignment to plan a critical appraisal of a systematic review with full details | 60% | CILO ₁₋₄ |

5. Required Text(s)

Higgins, J. P. T., Green, S. (2011). *Cochrane handbook for systematic reviews of interventions*. (Higgins, J. P. & Green, S. Eds.). The Cochrane Collaboration. www.cochrane-handbook.org

6. Recommended Readings

Egger, M., Higgins, J.P.T., & Smith, G.D. (2022). *Systematic reviews in health research: Meta-analysis in context*. John Wiley & Sons Ltd.

Higgins, J.P.T., Thomas, J., Chandler, J., Cumpston, M., Li, T., Page, M.J., & Welch, V.A. (Eds.). (2019). *Cochrane handbook for systematic reviews of interventions*. (2nd ed.) Wiley Blackwell.

Purssell, E. & McCrae, N. (2020). *How to perform a systematic literature review: A guide for healthcare researchers, practitioners and students*. (1st ed.) Springer Nature Switzerland AG.

7. Related Web Resources

Centre for Evidence Based Medicine
<http://www.cebm.net/>

Centre for Systematic Review (CSR)

<http://www.icddrb.org/what-we-do/health-programmes/health-and-family-planning-systems/centre-for-systematic-review-csr>

The Cochrane Collaboration

<http://www.cochrane.org/news/tags/centres/systematic-review-trainer-australasian-cochrane-centre-melbourne-vic-australia>

Cochrane Library

<https://www.cochranelibrary.com/>

8. Related Journals

Annals of Internal Medicine

British Medical Journal

Evidence-Based Nursing

Journal of Health Services Research & Policy

9. Academic Honesty

The University adopts a zero tolerance policy to plagiarism. For the University's policy on plagiarism, please refer to the *Policy on Academic Honesty, Responsibility and Integrity with Specific Reference to the Avoidance of Plagiarism by Students* (<https://www.eduhk.hk/re/modules/downloads/visit.php?cid=9&lid=89>). Students should familiarize themselves with the Policy.

10. Other

Nil

Programme Title : Doctor of Education
Course Title : Advanced Systematic Review of Health Research
Course Code : HCS7070
Offering Unit : Department of Health and Physical Education
Credit Points : 3

Delivery mode:

Online learning as the primary delivery mode

| Range of classroom-based contact hours (0-15) | Range of hours for online learning (24-39) | Total No. of-Contact Hours |
|--|---|-----------------------------------|
| | | 39 |

Directed study mode

| Range of classroom-based contact hours (4-15) | Range of guided independent learning hours (24-35) | Total No. of-Contact Hours |
|--|---|-----------------------------------|
| 9 | 30 | 39 |

Updated as of 8 March 2023